

2-18-00  
Docket No.: CIT/K-085A

PATENT

#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of :

Hyun Mun KIM et al. :

Continuation of Serial No. 09/010,446 506728 :

Filed: February 18, 2000 :

For: METHOD OF REDUCING A BLOCKING ARTIFACT WHEN CODING MOVING  
PICTURE

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. One copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the indicated date. Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that was cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. §120. 1138 OG 37, 38 (May 19, 1992).

X 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

— 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

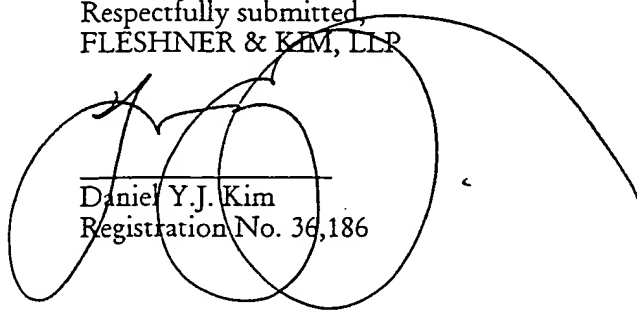
— a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1).

— b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known

to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2).

- c. Attached is our check no. \_\_\_\_\_ in the amount of \$240.00 in payment of the fee under 37 C.F.R. 1.17(p). Please credit or debit Deposit Account No. 16-0607 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but on or before payment of the Issue Fee. It is hereby requested that the Information Disclosure Statement be considered. Attached is our check no. \_\_\_\_\_ in the amount of \$130.00 in payment of the fee under 37 C.F.R. 1.17(i)(1). Please credit or debit Deposit Account No. 16-0607 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1).
- b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2).
- X 4. Copies of the references were cited by and/or submitted to the Office in parent application No. 09/010,446, filed January 22, 1998, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, copies of these references are not attached. 37 C.F.R. §1.98(d).
- X 5. To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,  
FLESHNER & KIM, LLP

  
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Daniel Y.J. Kim  
Registration No. 36,186

Correspondence Address:  
P.O. Box 221200  
Chantilly, VA 20153-1200  
Telephone: (703) 502-9440  
Date: February 18, 2000  
DYK:jld

<b>LIST OF PRIOR ART CITED BY APPLICANT</b>  <b>(PTO-1449)</b>				ATTY. DOCKET NO. <b>CIT/K-085A</b>		CONTINUATION OF APPLN. SERIAL NO. <b>09/010,446</b>	
				APPLICANT(S) <b>Hyun Mun KIM, et al.</b>			
				FILING DATE <b>February 18, 2000</b>		GROUP <b>Unassigned</b>	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	5,903,679	5/1999	Park	382	253		
	5,590,064	12/1996	Astle	382	268		
	5,677,736	10/1997	Suzuki et al	348	420		
	5,629,778	5/1997	Reuman	358	426		
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes    No	
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	Avideh Zakhori, "Iterative Procedures for Reduction of Blocking Effects In Transform Image Coding", IEEE Transactions On Circuits and Systems For Video Technology, Vol. 2, No. 1, pp. 91-95 (March 1992).						
✓	Yongyi Yang et al., "Regularized Reconstructions to Reduce Blocking Artifacts of Block Discrete Cosine Transform Compressed Images", IEEE Transactions On Circuits and Systems For Video Technology, Vol. 3, No. 6, pp. 421-432 (December 1993).						
✓	Gary J. Sullivan et al., "Motion Compensation for Video Compression Using Control Grid Interpolation", IEEE International Conference, pp. 2713-2716 (1991).						
✓	G. de Haan et al., "IC For Motion-Compensation 100Hz TV With Natural-Motion Movie-Mode", IEEE Transactions On Consumer Electronics, Vol. 42, pp. 165-174 (February 1996).						
/	Taner Özcelik et al., "Image and Video Compression Algorithms Based on Recovery Techniques Using Mean Field Annealing", Proceedings of the IEEE, Vol. 83, No. 2, pp. 304-316, February 1995.						
✓	Yasuyuki Nakajima et al., "A PEL Adaptive Reduction of Coding Artifacts for MPEG Video Signals", pp. 928-932, IEEE, 1994.						
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.